ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION RECORDS

Numbers 814 to 858

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13.

U. I. Fish Commission Dredging Records. 1880.

Loes. 814aug. 18-

All bearings in this book are magnetice. Air temperatures mere taken by a fas, escent, exercised by the havy Dept. and cornection to within 5 of a deg.

It was placed in the open yields house,

Trawe

#### TEMPERATURE RECORD.

Instrument used, Regretti - Jamba.
Current number of observation, 814. Date, aug. 18. 1880 Locality, off Block Island. Bearings, Block I, St., n.n. n. 78 h. 18 mules. Time of day, I P.M. State of sky, T. C. Temperature of air, 72. (n.3. 40007. surface of water, 72. at depth of 5 fathoms, 71, (10%, 57) (20%, 49) of bottom, 46. Depth, in fathoms, 27/2 5. 2. Direction of surface current, 1/4 mile Name of vessel, Fish Heave To what service attached, U.S. F. lo, Name and rank of commanding officer, 3. d. Jan dient, U.S. n. Name and position of observer, F. lo. Vaulle

Serials lakes with 12. 42.666.

814. REMARKS. Peden tenucostata, Jew. Asterias vulfaris. deplasterias compla abundant. Cribrella Danguinoleula Jen Buccinim midalum, abot. Capeina Islandica, aboi. Echinarachnius parma (four Springylockulrotus Dr. Tow. Limanda Jerruginea Lophins piscatorius. Osendorhombus oblongus. Phycis lenis.
" chuss. Raia. Rp. Joances anguillaris. Collis 18- spinosus, Merlucius bilinearis. Raia erinacea?

### Chester Rake Drede

#### TEMPERATURE RECORD.

Instrument used, Regretti - Zambra Current number of observation, 8 1 5 Date, aug. 18, 1880. Locality, off Block I, Bearings, Beock D. LT., n. W. by 2. 1 y miles. Time of day, 2. / Sau; of tide, State of sky, F. C. Temperature of air, 72 surface of water, 72. (ng. 4000 7. at depth of 5 fathoms, 710 (107.56, 20, 49. of bottom, 48 h.z. 42666. Depth, in fathoms, 29. Nature of bottom. Direction of surface our 2 S. W. Direction of bottom curi Name of vessel. To what service attached, Name and rank of commanding officer,

Name and position of observer,

×

x. n.g. 42666.

815. REMARKS. fine sand very rich Deparis Sp. from O. tenuicoslatus. Merlucius bilinearis fier. Dredge

#### TEMPERATURE RECORD.

Instrument used, Negretti-Zamba.
Current number of observation, 8/6
Date, Quy, 23.
Locality, Marragansete Bay,
Locality, Marragansete Bay, Bearings, Brenton's Reaf Lt. Ship
E. 3/48, 23/4 miles.
Time of day, / O. 25 au; of tide,
State of sky, elear
Temperature of air, "7/,
" surface of water, 69. N.3. 4000 7.
" at depth of fathoms,
" of bottom, 66. n.3. 42666
Depth, in fathoms, 81/2
Nature of bottom, Rand,
Direction of surface current,
Force of surface current, 2.
Direction of bottom current, S. E.
Porce of bottom current, 1/4 mile
Name of vessel,
To what service attached,
Name and rank of commanding officer,

816. REMARKS. House sand not very rich in life. a variey - france shells and some amphipods. Echinarachnius parma, exertiro

### TEMPERATURE RECORD.

Instrument used, Regretti Zambra  Current number of observation, 8, 7
Current number of observation,
Date, aug. 23,
Locality, Ranagansete Bay.
Bearings, Baenton's Reef LT. Ship
8.1/2 M. 3 miles.
Time of day, // C. M. ; of tide,
State of sky, Eleav,
Temperature of air, 72
" surface of water, 68. 9.3. 40007
" at depth of fathoms,
" of bottom, 63. 73.42666
Depth, in fathoms, / O.
Nature of bottom, Rand.
Direction of Surface current,
Force of starface current, 2.
Direction of bottom current, S. E.
Force of bottom content, 1/4 mile.
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Echinaracherin Jarman

prespe

#### TEMPERATURE RECORD.

Instrument used. Regrette Zancha.
Current number of observation, 8/8,
Date, acy, 23, 1880.
Locality, Marragansele Bay.
Bearings. Brenton's Reef St. Ship.
E. 1/2 M., 31/4 miles.
Time of day, / 1.20 an; of tide,
State of sky, Clear.
Temperature of air, 72.
surface of water, 68 n.3. 4000 f.
" at depth of fathoms,
of hottom, 65 7.3. 42666.
Depth, in fathoms, 91/2

Nature of bottom, and

Direction of white county S.

Force of surface current, 2.

Direction of Prift 5. 8.

orst. Inifi 1/4 mile

Name of vessel,

To what service attached,

Name and rank of commanding officer,

8/8 REMARKS.

Dame av lat. Hephlig, meira Cumacea, abundant Trans

#### TEMPERATURE RECORD.

Instrument used. Regrette Zambra.  Current number of observation.
Current number of observation.
Date, aug. 23. 1880.
Locality, Narraganzece Bay.
Bearings, S. End Hope Island, S. E.
by E. 1/2 E. 1/2 mile
Time of day, / Ru, ; of tide,
State of sky, Clear,
Temperature of air, 7 4.
" surface of water, 73. 913,4000]
" at depth of fathoms,
of bottom, 70. 91.3.42666
Depth, in fathoms, 6.
Nature of bottom, M.J.
Direction of surface coursest, S.S. W.
Force of surface current, 3.  Direction of the current, 7. 5. 7.
Direction of the street, M. S. M.
Fore of bottom month, 1/4 mile
Name of vessel,
To what service attached,

Name and rank of commanding officer,

819 REMARKS. Racher - por ou lega. Limilar bolophenia. Harris Carpais, Faign Empagaries Congrecarpuis, Faign a policieris Taria Adenies Forber's Collector Contract Collector Headquer Commence Sycologia Canaliculatus Solijo Realin med and effr Liberia emiargueta. Chaetokterus perga tube Molfela Markelleris abunt. Halicein Then stomus arygraps. Vendopleuronecher americanus, dophopsella maculata, Preoxolus Carolinus Rynoseros asgalis fur. Engraulis villalus. Pseudorhombus Jentralus End n.g. 42666, luke protecting containing water, Protecting luke to bulk also containing a litele water in addition to mercury escaping.

TEMPERATURE RECORD.

Instrument used, Regreeie Current number of observation, 8 2 aug, 23, 1880. Locality. Rarragansur Bay. Bearings S. en Hope doca N. N. E. 1/4 mile Time of day, 1.40 Rui; of tide, State of sky. Clear Temperature of air, 76. n.g. 42666 surface of water. 72. at depth of fathems. n.g. 40007. of bottom, 70 Depth, in fathoms, 5/2 Nature of bottom, S.S. M. Direction of -Force of 2. by 5. Direction of

Name of vessel,

To what service attached,

Name and rank of commanding officer,

120 dimilar to last, but a prest broken streets convergen Spiella empuda, 20/100. Callenecter hurtaling Lyce hylens Canaliculation Tulgeon Carrea Lougo Realis legg !! Mucula procesina Foltra linelula Meckelin Rusida. Tyngnachus fuscus, Obendopleuronectes americanus Onos Cymbrins fino. TEMPERATURE RECORD.

Instrument used. Regrecti'-Zambra.  Current number of observation. 827.
Current number of observation. 321.
Date, aug. 23, 1880.
Locality. Narraganser Bay.
Bearings, S. End Heape d., n. by E.
1/2 mile
Time of day, 2.15 Qu; of tide,
State of sky, Clear,
Temperature of air, 78.
" surface of water. 72 h. 3. 42666
at depth of fathoms,
" or bostom. 70. 71.3.40007
Depth, in fathoms, 5,
Nature of bottom, www.
Direction of wind 5, 5, 72
Force of surface and the
Direction of bottom or bottom. 5, 77.
distance 1/4 mile.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

Similar to Cart, Nepetry in cira Medicia Lucia

Raia, sp. jur. one spec. Rendorkombus oblongus, jur Tracol,

#### TEMPERATURE RECORD.

Instrument used, Regrette-Zambra
622
Date, aug. 23. 1880. Locality, Miraganze a Bay. Bearings, S. en of Heape Daland
Locality, Rhizaganze u Bay.
Bearings, J. e. D of Heape daland
or, a, 10 nuce.
Time of day, 3, Ru, : of tide.
State of sky, Clear,
Temperature of air, 78.
surface of water, 71. 913.42666.
" at depth of fathoms,
" 70. ng.4000%.
Depth, in fathoms,
Nature of bottom, Sand.
wind 4
Direction of bottom current, W. Stalance 1/4 mile.
Name of vessel,
zitatio di Tobeci,

To what service attached,

Name and rank of commanding officer,

REMARKS. Bujula Lyruia Covering her Cercienting borenes take Hydroides transfer The nepthy incira Musera morale Rucila processor Prionotus carolinus. Laphopsella maculala. Exerctomus argyrops. Cynoseion regalis jus. Tantogolabrus adspersus. Phyers termis.

### TEMPERATURE RECORD.

Instrument used, Negretti - Zamba.

Current number of observation, 823 Date. aug. 24. 1880. Locality, n. Oof Block J. Bearings, North Light, Block of n. 1/2 S., 11/2 miles. Time of day, 12, 35 Pa; of ride, State of sky, 6. c. Temperature of air, 74. surface of water, 65. 11.3. 46400. at depth of 5 fathers. 630 (106. 630 of bottom, 60 n.3.40007. Depth, in fathoms, 15/2 Nature of bottom, Rand, Force of July 3, Hance Direction of July 3, Hance Name of vessel, To what service attached, Name and rank of commanding officer,

x n.z. 40007.

823 REMARKS.

Le Line de la Lande de la Land

### 82 \$ Jmel.

#### TEMPERATURE RECORD.

Instrument used, Regretli Zamba.
Ro4
Current number of observation, 824.
Date. aug, 24, 1880.
Locality, North of Block of. Bearings, North St. of Block J., S. M.
Bearings, North LT. of Week J., 3, 1)
1/4 m. , 1 mile.
Time of day, 12, 50 Ru; of tide,
State of sky. Clear.
Temperature of air, 74.
surface of water, 65. 1.3. 4640
at depth of 5 fathoms, 630 (106, 63
" of bottom, 67 n.3. 4000 7.
Depth, in fathoms, 13,
Nature of bottom, Paul.
Direction of surface courses,
wind 3
Force of Sarme carrent,
Direction of bottom current, H. W.
Force of bottom editent.
Name of vessel,
To what service attached,
Nome and roule of commanding officer

Name and position of observer,

\*n.3. 40007.

82 Y REMARKS. dammans brysti obelie Testin territoritation about Straigh Arobate schewing to chemicachness farms Motorta unadotus Crepedula yourcala. Lolige Realis deplusterins compla. Orientalian structure Metition Thereprese Altymum Cathern bautoga onetur. Physis Centrics,

Physis Centrics,

Pres & foliar mericanus

Res & estembro dentalus

Ruia estina esta Ruia erenacea I pais in Reiter Encicentates Alineating Carolings Receive or handers Alingues.

Oller Trave

#### TEMPERATURE RECORD.

Instrument used, Regretter-Sambon Current number of observation, 825.
Current number of observation,
Data aug 24, 1880.
Locality, n. L. Block Island. Bearings, n. Light of Block J. n
Busing n. Light of Block of h
W. 3/4 W. , 11/4 miles.
Time of day, 1.30 Ry : of tide.
State of sky, Clear.
Temperature of air, 73.
" surface of water, 67.
" surface of water, 67. 113, 46400 at depth of 5 fathours 61. 11 3, 400
of hottom, Go.
Depth, in fathoms. 13,
Nature of bottom, A. D.
Direction of Williams, N. S. M.
Force of surface entreat,
Direction of butter. M. Tr.
Fishance /2 mile
Name of vessel.
Pa what survive attached

Name and rank of commanding officer,

825 REMARKS. early amila to Case too Less in barries of the Schienrachnius frame, maring Start to make the back of a 61. Sun atin her 10 Sheper Hungarone Martin millioner Canten illeratus. Compression Bernhaus. Raia (Ly) Phendorhandus dentalus Lephopsetta maculata Recuropleuronede amenen Preonotis garokinus.

## Dreage. TEMPERATURE RECORD.

J	instrument used. Negretle-Jamba.
(	Current number of observation. 82.6.
I	Date. aug. 24, 1880.
1	mentity, Nolth of Block. I.
I	Bearings North Light of Block Islan
7	. h. h. 1/2 h., 21/2 miles.
1	Time of day, 2, 40 Ru; of tide,
S	itate of sky, Clear,
Ί	'emperature of air. 73.
	surface of water, 670 MB. 46400.
	at depth of 5 fathous. 66. 29, 4000
	" of bottom, 5 4.
D	Depth, in fathoms, 22.
N	ature of holtom.
Đ	frection of
F	institute of Sistance 1/4 mile
į )	institute S.S. N.
1.	Fishance 1/4 mile
	ame of vessel,
113	what auxiliar attach ul

Name and position of observer,

Name and rank of commanding officer,

826, REMARKS. enne true & chemacochimin December. beneniasta borcanilare rulit Capring Dolanger. All histile acutesta. neiroe my Tehender Engine Front. directo exercit Plitochems français Champalita miscrocaplass cp ? 1 Service 5/17 Septellerin compla Tetro elemente villatar (men to 5. 1) cui Handelan China Super Level of the Land of the Jothic trimbala Autoria uniata 16 India Americalia

# Blake Trawl

#### TEMPERATURE RECORD.

Instrument used. Negretti-Jamba Current number of observation, 827.
Current number of observation, 827.
Date. Aug. 24. 1880.
Bearings, North Sight of Block o.
Brazings, North Light of Block of.
m. n. n. 1/2 m. 21/2 miles.
Time of day, 3. 0 5 Phi, of tide,
State of sky, Clear.
Temperature of air, 7/.
surface of water, 67° n.3.46400.
at depth of 5 fathams. 66, 11.3.4000
" of hottom, & Z.
Depth, in fathoms, 20/2
Nature of bottom, Raw,
Direction of
Force of3,
Direction of lanton current,
Force of bottom current.
Name of vessel,

To what service attached.

Name and rank of commanding officer,

827 BEMARKS. Attkon com Church Brenton Pantala Mintagai. Ino hauly were made and encluded sender This number. The first brought up nothing, The execut but very little. all the duvertebrals being contained in the above list. the reason assigned was char a sinky lb. ball mas attacked to end of bag, coursing the runners to raise high in the water when the abrain came upon chem Physis Fernis Rain exinacen

### Dregu TEMPERATURE RECORD.

Instrument used, Regretti - Zambra,
Current number of observation, 828.
Locality, Of Block Island.
Locality, Of Block Island.
Bearings North LT. Block J., S. W.
by W. 3/4 W., 21/2 miles.
Time of day, 12, 40 R; of tide.
Time of day, 12, 40 Rice of tide.  State of sky, Atorny.
Temperature of air, 70.
" surface of water, 66. n.3.46400
" at depth of fathoms,
of bottom, 60. 91.3, 40007
Depth, in fathonis, 15,
Nature of bottom, Aund,
Direction of surround, n. n. E.
Force of Surface correct. 6,
Direction of Land Land Land E. n. E.
Distance 1/4 mile.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

828 REMARKS. But very little came up, sandy bollow. Echinarachnins parma Shercoderma unisemila Cirolana? Rephthy I make vandy ascidian (Engre Gilularis??) few small oheles, This was the beginning of a two day's trap, the morning opening with fair prospects. but a north teaster shruck us, just about as the above dredge went down and we were obliged to return to part

# TEMPERATURE RECORD.

Instrument used Regretti-Zamba.
Current number of observation, 829
Date. aug. 27. 1880.
Bearings, Cormorant Rock, n. M. L.
Bearings, Cormorant Rock, n. Mr. Ly
1/4 mile
Time of day, 10, 45 and of tide.
State of sky, Clear
Temperature of air, 63,
" surface of water, 66, 91,3,42666
" at depth of fathoms,
" of bottom, 65. n.3.4000 Z
Depth, in fathoms, 9.
Nature of bostom, gravel and stones.
Direction of surface purpose.
Force of surface current, 2.
Direction of Landon correction. S. Long E.
Vortance 1/4 mile
Name of vessel,
To what service attached,
Name and rank of commanding officer,

829
REMARKS.

gravel fine and coarse Ket Mullipore Dewede het beamouts about Etheren Ruefaherran few Arterias Forbesic Crehella & auguernoleulo zemace Ophropholis aculcata Cances (2mall) chilon mamoreul. Crepitala formenta Moriola shoriolus. Balancel Tel-

## TEMPERATURE RECORD.

Instrument user, regular jamba
Current number of observation, \$30,
Date. aug. 27. 1880.
Locality. OF Mouth of Dakonner Re
Bearings, Elest Deland, S. E. Ly E.
1/2 E. , 3/4 mile,
Time of day, //, / Jan; of tide,
State of sky, elear.
Temperature of air, 64
surface of water, 66, 91.3, 42660
· at depth of fathoms,
" of bottom, 65. n.3, 40007.
Depth, in fathoms, /0 /2
Nature of bottom, Aared.
Direction of surface comment, &.
Force of surface convent, 2,
Direction of 11.2. /2.6
Distance 1/4 mile
Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

830. REMARKS. sand and gravel, reckond Chan last Covered with Many allers Dead sheel bournaches Small living shell. few annelis Cancer crowning Empagnous Bernhardled, water Artical Forbesia come

## Em 9ge TEMPERATURE RECORD.

Instrument used Regrette'- Zambra
Current number of observation, 831.
Dute Caronnel Rever
Leading, North End of Fould Rever
Current number of observation, 831.  Date.  Lecality, North End of Foul Rose.  Bearings, S. W. 14 W. 350 yards.
Time of day, 12.3 c Rui, of tide,
State of sky, Clear,
Temperature of air. 6 8.
surface of water. 71. 23, 42666
·· at depth of fathoms,
" of bottom, 71. ng, 4000 7.
Depth, in fathoms, 6,
Nature of bottom, black mud.
Direction of surface current S. E,
Force of surface current,  Direction of business current,  S.  J.  J.  J.  J.  J.  J.  J.  J.  J.
Direction of batton current, S.
distance 1/4 mile.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

Ablack, er dark breur, soft felis must with Mucula processa, buy absi Mulinia lateralis. Gara Also some other which This same character of bottom continued through 834. but the first one or how haves, had the strongest suche. The much beened to become purer or cleaves in character Jour river and 835 had no soull whatever, although is was a fenerie roft

## TEMPERATURE RECORD.

Instrument used. Regretti o Zambra
Instrument used. Regretti o Zambra  Current number of observation. 832
Date. Deleg 27, 1880,
Locality, Sakonnet River,
Bearings N. End. of Gould Island
West, 150 yards,
Time of day, / 2. 45 Ruij of tide,
State of sky. Clear,
Temperature of air, 70,
71, n.3. 42666,
·· at depth of fathoms,
" of bottom, 71. h.g. 4000 Z.
Depth, in fathoms, 9.
Nature of bottom, Black Mud,
Direction of auricon comment, S. E.
Force of surface current,
Direction of Lottom on n1,
Francisco de la
Name of vessel,
To what service attached,
Name and rank of commanding officer,

832.
REMARKS.

Jame as last.

## Chester Rake Dreste TEMPERATURE RECORD.

Instrument used, regrelle & januara	
Current number of observation, 833,	
Date, aug. 27. 1880.	
Lusding of akonnet River.	
Bourises. Porch End of Gould Islan	7

100 yards. Time of day, / Rue,

State of sky, Clear

Temperature of air, Zo,

surface of water, 7/,

ng. 42666,

of bottom, 7/.

at depth of

fathoms,

Depth, in fathoms, 6 1/2

Nature of bottom.

Direction of surfa

5, 8.

Direction of bet

Name of vessel,

To what service attached.

Name and rank of commanding officer,

833.

REMARKS.

Lame in character as Cast.

# Chester Rake Bretze. TEMPERATURE RECORD.

Instrument used, Regretti-Zembra
Carrent number of observation, 834

Date Aug, 27, 1880. Locality, Sakonnet River. Bearings. In Clearry's Point M.S. W.

3/4 mile.

Time of day, 1. 3 o Rue of tide.

State of sky, Clear

Temperature of air, 63,

" surface of water, 73, 73, 42666.

at depth of fathoms,

of bottom, 71.

n.g. 40007.

Depth, in fathoms, / /.

Nature of bottom, nul

Direction of author current, &

Force of surface current, 2

Direction of Triber, n. by E.

Direction of Examples 14 miles

Name of vessel,

To what service attached.

Name and rank of commanding officer,

834. REMARKS. drue as last In a sortine to large munder of Mucha processed the ware Crepetula formicala, benjabor, dead Folder limatula liv Litera canalientella 2 Meanne me prolifera . Deal Thepopletings Citteriores Touchi Cupagum pollicaris. In franchis Cancor (grang) mulimia Calera

## Charles Rake & mage

### TEMPERATURE RECORD.

12 20
Instrument used, negretti-Zamba Current number of observation.
Date, aug. 27, 1880,
Touris of about River
Bearings. McCourry's Rount n. 1/4 &
11/4 miles.
Time of day, /, 50 Rue; of tide,
State of sky, Clear,
Temperature of air, 68.
" surface of water. 73, 71.3,42666
·· at depth of fathoms,
" of bottom, 7/. n.3, 40007.
Depth, in fathoms, 31/2
Nature of bottom, mus and sheels,
Direction of surface current, S, E,
Force of surface current, 2.
Direction of bottom current, N.
Proposition of 14 mile.
Name of vessel,
To what service attached,

Name and rank of commanding officer,

835 REMARKS. of Jeal Shaclo, the Healering Creptant formers annex decayed and many consect with interesting bry and

## Chester Kake Breig.

### TEMPERATURE RECORD.

Instrument used, Regretti-Zambra
Current number of observation. 836,
Date. aug. 27, 1880.
Locality, clakonnet River.
Bearings. Black Point, Nr. 14 N.,
1/2 mile
Time of day, 2. 2 5 Rice; of tide,
State of sky, Clc.
Temperature of air, & &.
surface of water, 71, 2, 4266
· at depth of fathoms,
" of bottom, 71. ng. 4000 7
Depth, in fathoms, 5.
Nature of bottom, Paul.
Direction of suring S. P. E.
Ferce of surface entrepent,
Direction of bottom coment, S. S. N.
Formation of the mile
Name of vessel,

To what service attached,

Name and rank of commanding officer,

836 Sand but very little bollow Many Irnall herriet & rabs Bujula Furnita Entralella americana Penly Their occilate many young. Supagarus Congicarpus in Fritis Brickfalle, Mercita, eli madent the larger part of the house. Empagnico pollicare al La anoura Tracol

Instrument used, Regretti-3.

#### TEMPERATURE RECORD.

Current number of observation, Date, aug. 27, 1880. Locality, Jakonnet Ri Bourings. Black Roins n. W. by M. /2 W. 1/2 mile Time of day, 2. 4 SRui; of tide, State of sky, Clear Temperature of air, 69 n.3. 42666, surface of water, 7/, at depth of fathoms. n.3.40007. of bottom, 71. Depth, in fathoms, 5 Nature of bottom, 2 Direction of s S. L. E. Direction of hou Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

837.

Libinia emarquinta, many Caner broadly? Matyon in veallation Mercrita ouplication Fulgus caleca. ferent Lotin Penti. 2. Eupagum policari Asteria Fortesii Facitogolabus a dapersus. dophopiella maculala Cynosten regulis for Muneron Elifrancis willalus Noton the Tria canther, and Received to Lewis recelle a merican, they Recionshimbus dertalus, Priorde Carline (for, abo)

Carline (for, abo)

Carline (for, abo) Mentering nebulome Septonestino fre ener

# TEMPERATURE RECORD.

Carrent number of observation. 838.  Date, Aug. 27. 1880.  Locality, Harmonic River.  Bearings. Hoods Castle W. by h  I wile.  Time of day, 3,15 Rug of tide,  State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms,  of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, Aug.  Direction of surface current,  Direction of lattern current,  Direction of lattern current,  Direction of lattern current,  Name of vessel,	
Date, Aug. 27. 1880.  Locality, Harbonnet River.  Bearings. Hoods Castle W. by h  / wile.  Time of day, 3. 18 Rue of tide,  State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms,  of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, Far.  Direction of surface current,  Direction of lastom current,  Direction of lastom current,  Direction of lastom current,  Name of vessel,	Instrument used, Regretti Bambra
Date, Aug. 27. 1880.  Locality, Harbonnet River.  Bearings. Hoods Castle W. by h  / wile.  Time of day, 3. 18 Rue of tide,  State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms,  of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, Far.  Direction of surface current,  Direction of lastom current,  Direction of lastom current,  Direction of lastom current,  Name of vessel,	Current number of observation, & & & C.
Rearings, No. 33 Cashle W. Lyh.  Itime of day, 3. 15 Rug of tide,  State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms,  of bottom, 68.  Depth, in fathoms, 5 1/2  Nature of bottom, 22.  Direction of surface current,  Direction of surface current,  Direction of lattern current,  Name of vessel,	Date, aug. 27. 1880.
Rearings, No. 33 Cashle W. Lyh.  Itime of day, 3. 15 Rug of tide,  State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms,  of bottom, 68.  Depth, in fathoms, 5 1/2  Nature of bottom, 22.  Direction of surface current,  Direction of surface current,  Direction of lattern current,  Name of vessel,	Locality, Lakonnet River.
Time of day, 3, 15 Ru, of tide,  State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms, of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, Force of surface current, Direction of latters are surface.  Force of surface current, Direction of latters are surface.  Force of surface current,  Name of vessel,	Bearings Hoads Castle W. Lyh
State of sky, Clear.  Temperature of air, 66.  surface of water. 70  at depth of fathoms, of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, Living S. S. E.  Direction of surface current, Direction of lattern current,  Direction of lattern current,  Name of vessel,	
Temperature of air, 66.  surface of water. 70  at depth of fathoms, of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, 22.  Direction of surface current, Direction of surface current, 2.  Force of surface current, Direction of latters current, 1/4 Lines.  Name of vessel,	Time of day, 3, 15 Rue of tide,
at depth of fathoms, of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, Direction of surface current, Force of surface current, Direction of latters current,  Force of surface current,  Name of vessel,	State of sky, Clear,
at depth of fathoms, of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, 2.  Direction of surface current, Force of surface current, Direction of latters surface.  Force of surface current,  Name of vessel,	Temperature of air, 66,
of bottom, 68.  Depth, in fathoms, 51/2  Nature of bottom, 22.  Nature of surface current, 8. S. E.  Force of surface current, 2.  Direction of lattern current, 1/4 Links.  Name of vessel,	surface of water. 70 13. 42666
Depth, in fathoms, 51/2  Nature of bottom, 22.  Direction of surface current, 2.  Force of surface current, 2.  Direction of lattern current, 1/4 Links.  Name of vessel,	
Nature of bottom, Auril, S. S. E.  Direction of surface current,  Direction of lattern current,  Force of international current,  Name of vessel,	of bottom, 68, ng. 40007.
Nature of bottom, Auril, S. S. E.  Direction of surface current,  Direction of lattern current,  Force of international current,  Name of vessel,	Depth, in fathoms, 51/2
Direction of surface current,  Force of surface current,  Direction of lattern current,  Force of actions current,  Name of vessel,	Nature of bottom, Aund,
Direction of Latters correct,  Force of Latters correct,  Name of vessel,	Direction of surface current, P. S. E.
Force of interm convent, /4 will.  Name of vessel,	r orce of surnec current,
Name of vessel,	Direction of Lottom aurent.
	Force of bottom corrent, /4 will.
To what service attached,	Name of vessel,
	To what service attached,

Name and position of observer,

Name and rank of commanding officer,

838. REMARKS. Charle males Land of Cary Very will material Bugal lurila (much) Peter oper cas o-cellate une admit. Crepetila penus. Extendence parma. detirin canaliculata terspagnin pollicaris, many Morning Lineauthus Philicalthe turgigas (ene) Raia crinacia Pter Dorkon bus Dentalas Stenotomin argy who

# TEMPERATURE RECORD.

Instrument used, Regretti - 3 andra Current number of observation. 839.
Current number of observation. \$39.
Date, ang. 31. 1880.
Lucality, Ranagansette Bay
Bearings, Lumplings 11. 1. 1/2 # 1.
300 yards.
Time of day, 9.50 ; of tide,
State of sky, Le.
Temperature of air, 67.
" surface of water, 67. 11.3.42 666
20 2" at depth of 5 fathoms. 62. (107. 650
of bottom, 61. 7.3.40007.
Depth, in fathoms, 27/2
Nature of bottom, france,
Direction of such M. H. E.
Direction of house many S. 77.
Force of surface out of the surface of bottom amount,  Name of vessel.
Name of vessel,
To what service attached,
Name and rank of commanding officer,

839 REMARKS. Dans and frank Zuite , wich in life Large quantities of Laning with obelia dicholine weet Religion. Cancer borealis? James interaction? Bugnis livila Midsion committing should Crucibalus afrialis ordered unbalin beneziatio berealis. Arterial Fortheric.

## TEMPERATURE RECORD.

Instrument used, Regietei-Zambra.
Current number of observation, 84-0.
Date. Queg. 31. 1880.
Locality, Marragan ette day,
Bearings Dumplings n. by N. 1/2 hr.
100 yazds.
Time of day, / O, O Jan,; of tide,
State of sky. L. C.
Temperature of air, 67.
surface of water. 67. (1.3.42666
2007 at depth of 5 that hours, 650 /107, 650
3:07 at depth of 5 fathous, 65° (107, 65° of bottom, 61 (2.3. 40007.
Depth, in fathons, 201/2
Nature of bottom, gravel.  Direction of with M. N. E.
Force of surface arment, 2,
Direction of Lettern during,
Pist, " Error of Institute Court of the Cour
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

840

REMARKS.

Deman last.

TEMPERATURE RECORD.

	Current number of observation, 8 41,
	Current number of observation, 8 4.
	Date. aug. 31, 1880.
	Bearings. Rhode Island LT., n. E. &
	Bearings, Phode Island St. n. E. t
4	E. 3/4 E., 7/8 mile.
	Time of day, 10. 45ai of tide,
	State of sky, L, C
	Temperature of air, 68.
	surface of water. 67. (h, 3. 42666
2	as depth of 5 fathous. 67 (101. 650
	surface of water. 67. (1, 3, 4, 2, 6, 6)  or y at depth of 5 fathous. 67 (104, 65°  of horrors, 60 (1, 3, 4, 000 \$7)
	Depth, in fathoms, 21,
	Nature of total. I well
	Direction of with Z. N. E.
	Force of surface current, 2,
	Direction of latter correct. S.
	Force of surface current.  Direction of Literature S.  Direction of Literature S.  17 11
	Name of vessel,
	T 1

Name and position of observer,

Name and rank of commanding officer,

841. REMARKS. Holesias Francision Mitridenson accompanion

### TEMPERATURE RECORD.

Instrument used, Regactli- Janubra.  Current number of observation. 8 42.
Date, Queg. 21. 1880.
Bearings. Reside Island St., E. n.
Bravings. Atome Island IT., E. n.
1/2 E., 1/2 mile.
Time of day, //. a.u.; of tide,
State of sky, gleav.
Temperature of air, 69.
" surface of water. 67. (7.3, 42666
" at depth of fathoms,
" of bottom 67. n.3.40007
Depth, in fathoms, 8,
Nature of bottom, Rand.
Direction of surface current, surf
Force of authority 2.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

842 REMARKS. Trave

### TEMPERATURE RECORD.

Instrument used, Regretti - Zamba  Current number of observation, 8 4:3;
Date, aug, 31. 1880.
Bearing n end of Dara's delan 21.
Bearings. n. end of Dyer's delaw n.
Time of day, / 2 h ; of tide,
State of sky, llow.
Temperature of air, 69,
" surface of water. 69 (h.3. 42666)
" as depth of 5 fathoms, 6 7 (n. 3 4000)
" of bottom, 63
Depth, in fathoms, /4//2
Nature of bottom, Land,
Direction of white with, East,
Force of surface current,
Direction of Lattom extrent. 17,
Fred " 14 mile
Name of vessel,
To subot gameing attached

Name and position of observer,

Name and rank of commanding officer,

843. REMARKS. Acherias Forbesii, man, Cribrella Languinolista Hornamo americani Cancer bereetes ! Remedor him too Bearing Real of Commelly Convencement defraperate magulata. Rais of Physics Lemmi Aserborhowha chiergen Garage Regalis. Thenerone beggint.

1/rawl

### TEMPERATURE RECORD.

Instrument used. Negretti Zamba Date. aug. 31, 1880, Bearings. M. end of Dyers J., S. E. 1/2 E. . 1/4 mile. Time of day, / 2, 30 Ru; of tide, State of sky, Clear Temperature of air, 70. (11.3.42666 surface of water, 69 at depth of 5 fathonis. 67. Q1, J. 4000 7. " of bottom, 63. Depth, in fathoms, ///2\_ Nature of hottom, Direction of Direction of Later Marie. 12, 5, 72. Force of bottom current, 1/4 mile Name of vessel,

To what service attached,

Name and rank of commanding officer,

844. REMARKS. Much Laminaria, Kock mod, and other dearreed. Asterio Firecci Crebrella canquinders Homann americanis forcy Signature. Markey . Arbocia functional going They boken whell contras mul bygoa elt. Raia the Lopohopselle maculate. Prentoplecornects americana Lyper Clouds, Lutrogolabus a dopersus.

Frank

#### TEMPERATURE RECORD.

Instrument used. Regretti-Zambra.
Instrument used, Regretti-Zamba, Current number of observation. 8 45.
Date, aug. 31, 1880,
Bearings, Prudence dight, n. 1/2 m.
Bearings, Predence Light, n. 1/2 97.
3/4 mile
Time of day, / Pin, ; of tide,
State of sky, Elea,
Temperature of air, Zu.
" surface of water. 69. (77.3.4266) " at depth of 5 fathoms. 67. (7.3.4000)
" at depth of Tathons, 67. (17.3.4000)
of bottom, 64.
Depth, in fathoms, / 41/2

Nature of bottom, france.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

845 REMARKS. Cause up. Asteria Frontini Bugnia Cirrila Shine Crepitus fromidate Physics lenus. Rada eta yang

# Chesta Kake Dreige

Date, aug. 31. 1880.

Name and rank of commanding officer,

Name and position of observer,

### TEMPERATURE RECORD.

Instrument used, Register- Fambra Current number of observation. 846.

Locality, Kanagantere Bay
Benings. Phidence dt., n. ty
3/4 & , 1 1/2 miles.
Time of day, 1. 35 Ru,; of tide,
State of sky, Reav.
Temperature of air, 70.
- surface of water, 68, (n.3. 426)
surface of water, 68. (1.3. 426) at depth of 5 fathous. 67. (1.3.400)
" of bottom, 63.
Depth, in fathoms, /4/2
Nature of bottom, gravel
Direction of surface current, n. E.
Force of surface current, 3,
Direction of bottom current, & H. &
Force of bottom current, 14 mile
Name of vessel,
To what service attached,

846. REMARKS. must wick to be a species moderately beck in life Asterias Frontessis. Cribrella Danquinoleute Cancer (young) Callianaisa Stimpsoni.

France

### TEMPERATURE RECORD

Instrument used, Regretti-Zambra.
Current number of observation, & 47.
Date. Cung, 31. 1880
Bearings. Healy May Rock, n. 1/4 7
Bearings Have may Rock, n. 1/47
1 mile.
Time of day, 2. 15 Ry; of tide,
State of sky, Clear,
Temperature of air, 70.
" surface of water. 68, (7,3,4266)
" at depth of 5 fathours. 68. (1.3.4000
" at depth of 5 fathours. 68. (12.3.4000) " of bottom, 62, (23.4000)
Depth, in fathoms, / 2/2
Nature of bottom,
Direction of surface course, &,
Direction of Line 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Direction of Line 1. n. h. E.
Person into ment. 1/4 mile.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

847. REMARKS. The bag hout in large quality of mind by The bay fame out at lower and of the fame Links " uninelis, Stripton. Callinnassa

Frank

### TEMPERATURE RECORD.

Instrument used, Regretti- Jambra
Current number of observation,
Date. Aug. 31, 1880.
Locality Razzagandell Bay
Bearing Bishops Rock Can
1/2 mile
Time of day, 3, Ru, ; of tide,
State of sky, elgar.
Temperature of air, 69.
" surface of water. 68, (21,3,4266)
2007, at depth of 5 fathous, 68° (10%. 67°
of bottom, 62 n.3.40007.
Depth, in fathoms, 15 1/2
Nature of bottom,
Direction of surface current, S. &.
Force of surface current, 3,
Direction of bottom current, A
Free of Lation merent. 14 miles
Name of vessel,
To_what_service attached,
Name and rank of commanding officer,

848 REMARKS. Many Lamurarea, and Homerow americanio, 1, Sycolophy Canaliculate Commin & Krendien, D. from Churcy Correction Halenin Francisi. " vulgaris. Rain Krimeer Recurrencely americanin Lophopesette maculate Pseudortembus oblinguo Steneterms acquirilles Physica Central Estatogolabras a Depersus

Rake Dreste TEMPERATURE RECORD.

Instrument used Regretle- Jamba. Current number of observation, 849.
Current number of observation, 849.
Date. C.c./27.1. 1880,
Bearings. Fet, Dumpling W. n. W. 1/2 /
Bearings Fet Dumpling M. n. 72 /2 /
1/4 mile.
Time of day, 9. 20 : of tible, 66.
State of sky,
m
surface of water. 67 (1.3.42666.  3.7 at depth of 5 fathours. 67 (107.66°  of bottom, 63., 71.3.40007.
2.7 at depth of 5 fathours 670/104. 660
" of bottom, 63, n. 3.4000 7.
Depth, in fathoms, 20.
Nature of bottom,
Direction of minutes
4
Trice of Small Control
Direction of hottom current,
Dist. " / mile.
Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS. Jane gravel, Alms. Asterias Vergario Enparter varyanter (Du) L'annelis Eupopula, pollicario, Courses Gerentio mes Tantogolabras adspersus Synghalta fuocus.

Rake Ereganter TEMPERATURE RECORD.

Instrument used. Regretti- 3 amba.
Current number of observation, 853.
Date. Osp. 1. 1880,
Locality, Harragansele Bay.
Bearings, Ft. Dumpling. 6. 7. 6
1/2 E., 1/2 mile.
Time of day, 9, 40 au; of tide, self,
State of sky, Plear,
Temperature of air, 67.
" surface of water. 67. (7. 3. 4266)
200 9 at depth of 5 fathours, 67 (10%. 66.
300 7 at depth of 5 fathours, 67 2106.66. of bostom, 63. (7.3, 4000 7.
Depth, in fathoms, / 4 1/2
Nature of bottom, Acels.
Direction of surface current, East.
Force of surface current, 2.
Direction of pottem current, O, O, //,
First. " 1/4 mile
Name of vessel,

To what service attached,

Name and rank of commanding officer,

850, REMARKS. Euglagering Conjunction

## Rake Dreg -TEMPERATURE RECORD.

Instrument used, Regretti - Za

Current number of observation,
Date, Jept. 1, 1880,
Livellity. Harraganisett Bay
Bearings. Beaver Fail LT., S. M. 1/41
13/4 miles.
Time of day, 10, an, ; of tide, ebb.
State of sky, elear.
Temperature of air, 66.
" surface of water. 67. (7.3. 42666.
" surface of water. 67. (7.3.42666, at depth of 5 habours, 66° (11.3.4000)
" of bottom, 66,
Depth, in fathoms, / 2 1/2
Nature of bottom, aund.
Direction of Australia, S. E.
Force of surface current, 2,
Direction of hottom direction, 5,
Dist. " 1/24 miles.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

857. REMARKS. Much Laminaria santa 5 Syngnather from.

## Trace ( TEMPERATURE RECORD.

Instrument used, Regretti- Zambra
Current number of observation, 852,
Date, Jefat, 1, 1800.
Locality. Marraganketo Bay,
Bearings. Beaver Fail Light, S.S. M.
3/4 m., 21/8 miles.
Time of day, 10. 35 aux; of tide, 206.
State of sky, Clean.
Temperature of air, 47. 67.
" surface of water. 76. (n.3.42666
or don't of fathama
" of bottom, 66. (h3.40007.
Depth, in fathoms, 2 1/2
Nature of bottom, 2 and,
Direction of surface outrent,
Force of surface current,
Direction of bottom current.
Force of bottom current, 1/4 mile.
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Name and position of observer,

Note - mid-channel interested

852 REMARKS. many deaments Saminaria Eckinaracherin france Homarus arnelicaring Eupapurus pollicaris. Tlexotomus argyrops. Pseudopleuro recle, america mo, Sophopsella maculata. Raia erinacea, Priordes Carolinus dantogolabrus adapersus Oyngmaches fuseur, Oberidorhombus Sentation

## Travel. TEMPERATURE RECORD.

Note- mis channel in Mackoul

853. REMARKS. Homero americanis ( To long Loligo Pealei ? July. Lophopselia maculata. Page dockombus denealus. Pseudoplemonecte, america mus, Cyroscin regulis Paionotus carolinus Tantogolabus adapersus.

Frame

## TEMPERATURE RECORD.

Instrument used, Regretti-Zambra Current number of observation, Date, Jepi. 1, 1880. Locality, Narragansett Bag. Bearings, Beaver Fail dt. S. M. 45. Time of day, 1.10 au; of tide, ebs. State of sky, elean, Temperature of air, 69. surface of water, 67. (7.3,42666 at depth of fathoms. (n.3.4000 7. of bottom, 6 7. Depth, in fathoms, 6. Nature of bottom, Quand, 5. 8. Direction of bottom current, Name of vessel, To what service attached, Name and rank of commanding officer,

Name and position of observer,

- Mackeril

854 REMARKS. Some on chamile. Limulus Holyphenna Homanus anderename. denotomus argyrops. Vair noties Carolinus. Opendorhornbus denealis. dantogolabus adaperans. Paen Toplemoneste americana dophopsella maculala Cynoscin Regalis.

TEMPERATURE RECORD.

Instrument used, Regretti- Fambra
Instrument used,
Current number of observation.
Date, Sept. 1. 1880.
Bearings Bearer Fair LT., S. M.
Bearings Bearer Face At. S. M.
Ly. S., 2 miles,
Time of day, 11. 40 au of tide. ebb.
State of sky, Clear.
Temperature of air, 70,
surface of water. 68. (7.3. 42666
" at depth of fathoms,
of honour. 68. (7,3,400) 7
Depth, in fathoms, 31/2_
Nature of bottom,
Direction of sanface current,
Force of surface surrent.
Direction of Legions June 11.
Face of bottom current,
Name of vessel,
Po relat convine attached

Name and rank of commanding officer,

855 REMARKS. Jame as last. Horneson american Design Sycoty pur canalisulation & Calline ste. hastatus 1. Lunaira heros Conflagama pullican L. Clair exinacea. Chilichthys turgidus, Trenstones argyrops. Persopleuronectes americana Sophopsetta maentata. Animatus Carolinus.

TEMPERATURE RECORD.
Instrument used, Negretti-Zambra
Current number of observation.
Date. Jepi. 1. 1880.
Bearings. Beauer Fail dight.
Bearings. We cause Tail dight.
J. W. 1/2 M., 19/8 miles.
Time of day, / 2.05 Reg of tide,
State of sky,
Temperature of air, 69,
surface of water, 68. (113. 42666
" at depth of fathoms, of bottom, 67 (2, 4000)
Depth, in fathoms, // . Nature of bottom.
Direction of such assets &
France of a contract of the state of the sta
Direction of bottom corrent,  S. S. &,  Faces of bottom corrent,
Farre of bottomerarent,
Name of vessel,
The reduct assuring attached

Name and rank of commanding officer,

856 daminana Mighilas & Bulis

Kake Dredge
TEMPERATURE RECORD.

0
Instrument used, Regrelli-Zambra
Instrument used, Regretti-Saulra Current number of observation,
Date, Jept. 1, 1880.
Bearings, Beaver Fail dt., m.S. m.
Bearings, Beaver Tail dt, n.S. m.
3/4 m., 6/10 mile.
Time of day, 12.35 Rui of tide,
State of sky, L.C.
Temperature of air, 69,
" surface of water, 63 (h.3. 42666 at depth of 10 fathoms, 66,5 (h.3.400)
" at depth of 10 fathoms, 66,5 (h,3,400c
" of bottom, 66,
Depth, in fathoms, 19.
Nature of bottom, Dand,
Direction of surface current, S, E,
Force of surface current, 2.
Direction of bottom current, S. E.
Force of bottom current, 1/4 mile
Name of vessel,
To what service attached,
Name and rank of commanding officer,

857. Large quantities Lammana Rake Dredge. Coarse and brokenshills. Cancer Gorealis 7.45 = 67